***Software Requirements***

***Specification***

# for

***B to B Job***

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***3/11/2024***

## Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| ***Name*** | ***Date*** | ***Reason For Changes*** | ***Version*** |
| *M. Zain Khan* | *3/11/24* | *Verifying Requirements* | *1.1* |
| *M. Zain Khan* | *3/13/24* | *Updating Requirements* | *1.2* |
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ii) Free Users

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**Software Requirements Specification (SRS) Document for B to B Job**

### 1. Introduction

#### 1.1 Purpose

The purpose of this document is to outline the software requirements for the development of an interprofessional relationships website. The website will facilitate the exchange of services between professionals and businesses, allowing them to post and respond to ads or calls for tenders.

#### 1.2 Scope

The website will provide a platform for both premium and normal users to interact. Premium users will enjoy enhanced features, enabling them to post ads, respond to ads, and participate in a dedicated premium forum. On the other hand, free users will have the capability to create ads so they can engage on the website and could receive responses from the Professionals or Premium users.

### 2. System Overview

**2.1 Website Type**

The website is categorized as an inter-professional relationships platform.

#### 2.2 Front Page

The front page will resemble *“Reference Website’s”* with modifications to font and images. It will display top categories of ads for users who are not logged in.

#### 2.3 Logging In/Registering

Users can register by entering their name, surname, and email. Optional banking details can be provided for premium access. Premium users will pay a monthly subscription fee.

### 3. User Accounts

#### 3.1 Premium Users

Premium users can create ads, respond to ads, and access a premium forum. Monthly subscription fees apply. Premium users may also communicate with professionals on their ads.

**3.2 Normal Users**

Normal (Free) users possess the capability to create compelling ads and eagerly anticipate responses from the premium subscribers. However, they cannot view other ads. Although - they can browse through site requests, but certain details (company name, the individual's first and last name) are intentionally blurred, only the details of the ad and city would be viewable for (free) users, encouraging users to explore the benefits of a premium subscription.

[*(NOTED ADDITION – REGISTRATION)*](#_5._Registration)

*[****POINTS*** *TO BE NOTED &* ***CONSTRAINTS****]*

1. **Professional Users**

Professional users, including businesses and individuals with a professional status, can register by providing documentary evidence such as the K-bis. They have the capability to post ads as a service provider and can register as premium users to unlock additional features. Non-paying professional registrants are allowed to place two free ads per month. After exceeding this limit, they must upgrade to premium.

1. **Free Users**

Free users are divided into two categories: professionals and individuals.

**ii.i) Professional Registration (Business)**

Professional users must provide documentary evidence of their professional status, such as the K-bis, at the time of registration. They can post ads as a service and have the option to register as premium too. Non-paying professional registrants are allowed to place two free ads per month.

**ii.ii) Individual Registration**

Individuals can sign up by providing their first name, last name, and email address. They are limited to posting ads as requests only and cannot register as premium users. They are limited to placing one free ad per month.

### 4. Additional Features

#### 4.1 Boost Your Ad

All users can boost their ads to the top of the page for a monthly charge. Premium users opting in for boosting will be charged for both premium access and ad boosting.

**4.2 Review System (Professionals)**

A review system will be implemented for professionals to gather feedback from users.

**4.3 Premiumship**

Users can purchase premiumship to unlock additional functionalities of the website.

**4.4 Advertising Banner**

The site will include a banner to advertise services for advertisers.

### 5. Registration

#### 5.1 Registering as a Business (Company)

Mandatory fields for business registration include KBis, RDC Pro, profile photo, name, and first name or company name.

#### 5.2 Creating as a User

Users can provide additional information such as daily rates, service area, location, tools availability, company vehicles, and specific licenses in a non-mandatory section.

[*(NOTED ADDITION – REGISTRATION)*](#_3._User_Accounts)

*[****POINTS*** *TO BE NOTED &* ***CONSTRAINTS****]*

1. **Professional Users**

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**ii.ii) Individual Registration**

Individuals can sign up by providing their first name, last name, and email address. They are limited to posting ads as requests only and cannot register as premium users. They are limited to placing one free ad per month.

### 6. User Space

#### 6.1 Personal User Space

A user space will display the client's logo/company name, showcasing the latest ads in chronological order. Users can search and filter ads based on categories.

### 7. Reference Example

**7.1 Reference Styling Help**

The website style will resemble *“Reference Website’s*”, focusing on displaying services.

### 8. Ad Creation

#### 8.1 Premium or Not

Users must specify profession, date, location, mission description, site photo, task, and deadline. They can allocate a budget directly to the mission or request a quote via messaging.

### 9. Security Requirements

#### 9.1 User Authentication

The system must implement secure user authentication, requiring unique usernames and strong passwords. Passwords should be encrypted and stored securely.

#### 9.2 Data Encryption

Sensitive user data, such as banking details, must be encrypted during transmission and storage to ensure confidentiality.

#### 9.3 Access Control

Access to premium features, user data, and administrative functions must be restricted based on user roles. Role-based access control should be implemented.

### 10. Functional Requirements

#### 10.1 User Registration

Users should be able to register by providing necessary details. The system must validate the information provided and generate unique user IDs.

#### 10.2 Ad Posting

Users, both premium and normal, should be able to create ads. Premium users have additional options, such as discussion with the professionals or access to their ads.

#### 10.3 Forum System

The premium forum system should enable communication among premium users. Moderation tools must be provided to manage forum content.

**10.4 Website Purchase Page for Professional Users:**

1. Implement a dedicated webpage enabling professional users to review and acquire listed websites directly from the main website.

2. Develop intuitive user interface (following the design strictly) for easy browsing and selection of available websites.

3. Integrate secure payment gateway for seamless transactions.

**10.5 Domain Redirection and Integration:**

1. Implement automated linking mechanism for all domain pages to redirect to the project's main website.

2. Ensure each purchased domain is linked to the main website to prevent unauthorized acquisition.

3. Enhance security measures to safeguard against domain theft or misuse.

### 11. Non-functional Requirements

#### 11.1 Performance

The system should handle a minimum of 1000 concurrent users without significant performance degradation. Response time for critical functions should be under 2 seconds. Above 1000 concurrent users would provoke a cost-affective factor as there would be changes in members management in database (as it is dependent of maintenance and membership).

#### 11.2 Scalability

The architecture must be scalable to accommodate a growing user base. Provision for load balancing and horizontal scaling should be considered.

#### 11.3 Availability

The system should maintain an uptime of at least 98.9%, allowing for scheduled maintenance (done separately & to be discussed).

#### 11.4 Usability

The user interface should be intuitive and user-friendly. It should follow accessibility standards to ensure inclusivity.

**11.5 Security:**

User Authentication:

The system must implement secure user authentication, requiring unique usernames and strong passwords.

Passwords should be encrypted and stored securely (Ensuring all the Authentication and Security measures to control & ensure secure logins)

Data Encryption:

Sensitive user data, such as banking details, must be encrypted during transmission and storage to ensure confidentiality (All types of Data and Secure Authentication that need to be ensured into the website should be implemented into the website, i.e.: (Multi-Factor Authentication (MFA), Role-Based Access Control (RBAC), Session Management, Token-based Authentication, Single-Factor Authentication (SFA))

Access Control:

Access to premium features, user data, and administrative functions must be restricted based on user roles.

Role-based access control should be implemented to prevent unauthorized access.

**11.6 Search Engine Functionality (Premium Users):**

Premium users will have access to a robust search engine functionality to efficiently locate ads based on geographic areas within France.

Location Selection:

Users can refine their search by selecting a specific city from a comprehensive list.

Proximity Search:

Users can utilize their current location as a reference point and set a search radius, for example, up to 50 kilometers surrounding their position.

**12. Development Keys**

**a. PROGRAMMING LANGUAGES:**

The development of the project will utilize the following programming languages:

*HTML:* Used for structuring the content of web pages.

*CSS:* Employed for styling and formatting the visual presentation of web pages. *JavaScript:* Utilized for enhancing interactivity and user experience on the client-side.

**b. DATABASE:**

Following Database would be used to store all the website’s data:

*Database:* Firebase and MongoDB to store all the data (licenses and cookies) of the website.

***Maintenance*** and ***Membership*** would also be dependent on the ***Database***.

**13. Search Engine Functionality (Premium Users)**

We recognize the importance of enhancing user experience, and thus, we propose the inclusion of a robust search engine functionality. This feature is specifically designed for premium users, empowering them to efficiently locate ads based on geographic areas within France.

1. **Location Selection:**

Premium users will have the flexibility to refine their search by selecting a specific city from our comprehensive list.

1. **Proximity Search:**

For added convenience, users can also utilize their current location as a reference point. They will have the option to set a search radius, for example, up to 50 kilometers surrounding their position.

**14.** **External Services:**

**14.1 Marketing Services:**

Offer SEO optimization services, including one-time setup and monthly maintenance, Provide meta ads on a monthly basis, providing efficiency and improving website visibility and ranking. Priced at €400 per month.

**14.2 Platform Maintenance:**

Ensure overall platform stability and functionality with regular maintenance tasks. Monthly maintenance fee set at €300 (with room for negotiation).

**14.3 Domain Redirection:**

Offer domain redirection services for 6 (six) websites, securing them against unauthorized use. Priced at €35 per domain.

**14.4 Wordpress Portfolio Websites:**

Develop seamless Wordpress portfolio websites tailored to client specifications, priced at €150 each.

### 15. Approval

#### 15.1 Client Approval

The client *“Mr. Mehdi”* will review and approve the SRS document, encompassing the e-commerce marketplace features, before development begins.

## Approval History

|  |  |  |  |
| --- | --- | --- | --- |
| ***Client: Mr. Mehdi*** | ***Date*** | ***Reason For Changes*** | ***Version*** |
| *Approved (1st)* | *3/15/24* | *Requirements Updating* | *1.1* |
| *Awaiting Approval* | *TBD* | *TBT* | *1.2* |